

10/520078

DT1 Sec'd POT/PTO 05 JAN 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

NAJIB et al

Atty. Ref.: **3665-126**

Serial No. **Unknown**

Group:

National Phase of: **PCT/FR2003/002128**
International Filing Date: **8 July 2003**

Filed: **Herewith**

Examiner:

For: **COMPOSITION BASED ON SUBSTITUTED 1,3-DIPHENYLPROP-2-
EN-1-ONE DERIVATIVES, PREPARATION AND USES THEREOF**

* * * * *

January 5, 2005

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

As suggested by 37 C.F.R. 1.97, the undersigned attorney brings to the attention of the Patent and Trademark Office the references listed on the attached form PTO-1449, copies of all non-U.S. references are enclosed. This is not to be construed as a representation that a search has been made or that no better prior art exists, or that a reference is relevant merely because cited. Copies of the International Search Report and French Patent Office Search Report are also enclosed.

The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By:



B. J. Sadoff
Reg. No. 36,663

BJS:Imy
1100 North Glebe Road, 8th Floor
Arlington, VA 22201-4714
Telephone: (703) 816-4000
Facsimile: (703) 816-4100

Rec'd PTO 05 JAN 2005

INFORMATION DISCLOSURE CITATION ATTORNEY DOCKET NO.

3665-126

Unknown

APPLICANT

NAJIB et al

(Use several sheets if necessary)

FILING DATE

GROUP

Herewith

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|-------------------|-----------------|---------|----------------|-------|----------|-------------------------------|
| | 4,656,305 | 4/1987 | Vanstone et al | | | |
| | 5,276,058 | 1/1994 | Satoh et al | | | |
| | 3,558,612 | 1/1971 | Kuhn et al | | | |
| | 3,994,955 | 11/1976 | Sprenger | | | |
| | 5,523,302 | 6/1996 | Cain et al | | | |
| | | | | | | |

FOREIGN PATENT DOCUMENTS

| DOCUMENT | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES NO |
|-------------|---------|---------|-------|----------|-----------------------|
| 78 06279 | 10/1978 | FR | | | X |
| WO 00/23073 | 4/2000 | WIPO | | | |
| WO 01/98291 | 12/2001 | WIPO | | | |
| 43 27 365 | 2/195 | DE | | | X |
| 0 947 511 | 10/1999 | EP | | | |
| 2 841 900 | 1/2004 | FR | | | X |
| 2 248 829 | 5/1975 | FR | | | X |
| 1 254 658 | 11/2002 | EP | | | |

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

| | |
|--|--|
| | Shibata et al, "Anti-Tumorigenic Chalcones", STEM CELLS, ALPHAMDED PRESS, DAYTON, OH, US, vol. 12, 1994, pp. 44-52 |
| | Dimmock et al, "Bioactivities of Chalcones", CURRENT MEDICINAL CHEMISTRY, BENTHAM SCIENCE PUBLISHERS BV, BE, vol. 6, no. 12, 1999, pp. 1125-1149. |
| | Lebeau et al, "Antioxidant Properties of Di-Tert-Butylhydroxylated Flavonoids", FREE RADICAL BIOLOGY AND MEDICINE, ELSEVIER SCIENCE, XX, vol. 29, no. 9, 1 November 2000, pp. 900-912. |
| | Mukherjee et al, "Synthetic and Biological Activity Evaluation Studies on Nove, 1,3-diarylpropenones", BIOORGANIC & MEDICINEAL CHEMISTRY, ELSEVIER SCIENCE LTD, GB, vol. 9, no. 2, 2001, pp. 337-345. |
| | Rajakumar et al, "Antioxidant Properties of Phenyl Styryl Ketones", FREE RADICAL RESEARCH, YVERDON, CH, vol. 22, no. 4, 1995, pp. 309-317. |
| | Arty, "Synthesis of benzylideneacetophenones and their inhibition of lipid peroxidation", EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY 2000 FRANCE, vol. 35, no. 4, 2000, pp. 449-457. |
| | Halliwell, "Oxidants and the central nervous system: some fundamental questions. Is oxidant damage relevant to Parkinson's disease, Alzheimer's disease, traumatic injury or stroke?", ACTA NEUROLOGICA SCANDINAVICA. SUPPLEMENTUM. DENMARK 1989, vol. 126, 1989, pp. 23-33. |
| | Sogawa et al, "3,4-Dihydroxychalcones as Potent 5-Lipoxygenase and Cyclooxygenase Inhibitors", JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 36, no. 24, 1993, pp. 3904-3909. |
| | Nakamura et al, "Synthesis and Biological Activities of Fluorinated Chalcone Derivatives", BIOORGANIC & MEDICINEAL CHEMISTRY, ELSEVIER SCIENCE LTD, GB, vol. 10, no. 3, March 2002, pp. 699,706. |
| | Calliste et al, "Chalcones: Structural Requirements for Antioxidant, Estrogenic and Antiproliferative Activities", ANTICANCER RESEARCH, HELENIC ANTICANCER INSTITUTE, ATHENS, GR, vol. 21, no. 6A, 2001, pp. 3949-3956. |
| | Furmn et al, "Di-tert-Butylhydroxylated Flavonoids Protect Endothelial Cells Against Oxidized LDL-Induced Cytotoxicity", JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, WILEY, NEW YORK, NY, US, vol. 15, no. 5, 2001, pp. 270-278. |
| | Lim et al, "Synthesis of flavonoids and their effects on aldose reductase and sorbitol accumulation in streptozotocin-induced diabetic rat tissues", JOURNAL OF PHARMACY AND PHARMACOLOGY, LONDON, GB, vol. 53, no. 5, May 2001, pp. 653-668. |
| | PATENT ABSTRACTS OF JAPAN, vol. 018, no. 415, 4 August 1994 & JP 06 122623 A, 6 May 1994. |
| | PATENT ABSTRACTS OF JAPAN, vol. 012, no. 209, 15 June 1988 & JP 63 010720 A, 18 January 1988. |
| | |
| | |

*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

10/520078

OT12 Rec'd POT/PTO 05 JAN 2005

INFORMATION DISCLOSURE CITATION

3665-126

Unknown

APPLICANT

NAJIB et al

(Use several sheets if necessary)

FILING DATE

GROUP

Herewith

| *EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|-------------------|-----------------|------|------|-------|----------|----------------------------|
|-------------------|-----------------|------|------|-------|----------|----------------------------|

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

| | | |
|--|--|---|
| | | Haraguchi et al, "Antioxidative and Superoxide Scavenging Activities of Retrochalcones in Glycyrrhiza Inflata", BIOORGANIC & MEDICINAL CHEMISTRY, ELSEVIER SCIENCE LTD, GB, vol. 6, no. 3, March 1998, pp. 339-347. |
| | | CHEMICAL ABSTRACTS SERVICE XP002236041, abstract & Oganessian et al, "Study of structure-activity (A) interrelations in the flavonoid series. I. Synthesis of chalcone derivatives and quantitative SA analysis", KHIMIKO-FARMATSEVICHESKII ZHURNAL, vol. 20, no. 6, 1986, pp. 696-702. |
| | | Hsu et al, "Structure-Activity Relationships of Substituted Flavonoids. (I), TAIWAN-KEXUE - FORMOSANSCIENCE, TAIPEI, TW, vol. 27, no. 1/2, 1973, pp. 23-26. |
| | | Szajda et al, "New alkoxy-carbonylalkyl oxychalcones and their alpha, beta-dibromo derivatives of potential antimicrobial activity", DIE PHARMAZIE, GERMANY, EAST MAR 1989, vol. 44, no. 3, March 1989, pp. 190-191. |
| | | Stoll et al, "Chalcone derivatives antagonize interactions between the human oncoprotein MDM2 and p53", BIOCHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, PA, US, vol. 40, no. 2, 16 January 2001, pp. 336-344. |
| | | DATABASE, CHEMICAL ABSTRACTS SERVICE, XP002271329, abstract & Shi et al, "Synthesis of ethyl flavone (or chalcone) oxyisobutyrate and its derivatives as antilipemic agents", TAIWAN YAOXUE XAZHI, vol. 27, no. 1-2, 1975, pp. 12-16. |
| | | DATABASE CHEMICAL ABSTRACTS SERVICE, XP002271330, abstract & Palanowski et al, "Synthesis of potent vasoactive compounds. I. phenylacrylophenone derivatives", ACTA POLONIAE PHARMACEUTICA (ENGLISH TRANSLATION), vol. 24, no. 6, 1967, pp. 567-574. |
| | | DATABASE, CHEMICAL ABSTRACTS SERVICE, XP002271331, abstract & JP 54 019947 A (Taisho Pharmaceutical Co.) 15 February 1979. |
| | | DATABASE, CHEMICAL ABSTRACTS SERVICE, XP002271332, abstract & Safak et al, "Chalcones. II. Synthesis of some chalcone derivatives and their antifungal activity against Candida albicans", FABAD JOURNAL OF PHARMACEUTICAL SCIENCES, vol. 8, no. 2, 1983, pp. 80-88. |
| | | DATABASE, CHEMICAL ABSTRACTS SERVICE, XP002271333, abstract & JP 05 255655 A, (Kanebo Ltd), 5 October 1993. |
| | | DATABASE, CHEMICAL ABSTRACTS SERVICE, XP002271334, abstract & Sun et al, "Studies on flavonoids. VIII. Synthesis of 7-substituted flavones and 2',4'-dihydroxy-3-methoxy -4'-substituted chalcones", GAODENG XUEXIAO HUAXUE XUEBAO, vol. 9, no. 8, 1988, pp. 853-855. |
| | | DATABASE, CHEMICAL ABSTRACTS SERVICE, XP002271335, abstract & Szajda et al, "Carbon 13 NMR study of o-, m- and p-(alkoxycarbonyl)alkoxy chalcones and their alpha, beta dibromo derivatives, MAGNETIC RESONANCE IN CHEMISTRY, vol. 27, no. 4, 1989, pp. 399-402. |
| | | Cheng et al, "Broussouchalcone A, a potent antioxidant and effective suppressor of inducible nitric oxide synthase in lipopolysaccharide-activated macrophages", BIOCHEMICAL PHARMACOLOGY 61 (2001) 939-946. |
| | | Cheng et al, "Antioxidant properties of butein isolated from Dalbergia odorifera", BIOCHEMICA ET BIOPHYSICA ACTA 1392 (1998) 291-299. |
| | | Hsieh et al, "Synthesis and Anti-inflammatory Effect of Chalcones and Related Compounds", PHARMACEUTICAL RESEARCH, Vol. 15, No. 1, 1998, pp. 39-46. |

*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 608; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.